## CLAIMS

What is claimed is:

1. A method for reducing the amount of mercury affixed to a sorbent, the method comprising:

providing an amount of sorbent, at least a portion of the amount of sorbent comprising particulates having mercury compounds affixed to the particulates; and exposing the amount of sorbent to heated flowing air until mercury compounds are liberated from at least some of the particulates.

2. The method of claim 1 wherein:

the amount of sorbent is maintained in the heated flowing air until the sorbent reaches a temperature of at least 700°F (372°C).

3. The method of claim 1, further comprising:

measuring an in process temperature of the sorbent when the sorbent is exposed to the heated flowing air;

removing at least a portion of the sorbent being exposed to the heated flowing air when the measured in process temperature reaches at least 700°F (372°C);

thereafter providing a second amount of sorbent, at least a portion of the second amount of sorbent comprising particulates having mercury affixed to the particulates; and

thereafter maintaining the sorbent in the heated flowing air until the sorbent reaches a temperature of at least 700°F (372°C).

4. The method of claim 1, wherein the step of exposing the sorbent to heating flowing air comprises the steps of:

providing a metal media having openings; passing heated flowing air through the openings; and depositing the sorbent on the metal media.

- 5. The method of claim 4 wherein: the openings are 10 microns or less.
- 6. The method of claim 4 wherein:

the flowing air is passed through the openings at greater than 0 to about 10 cubic feet (0.28 cubic meters) per minute.

- 7. The method of claim 1, wherein the sorbent is activated carbon.
- 8. The method of claim 7 wherein:

the amount of activated carbon is maintained in the heated flowing air until the activated carbon reaches a temperature in the range of 700°F (372°C) to 1000°F (538°C).

- 9. The method of claim 1, further comprising: reusing the sorbent in a mercury reduction process after mercury compounds are liberated from at least some of the particulates.
- 10. The method of claim 1 further comprising: preheating the amount of sorbent to a temperature of at least 300°F (148°C) before exposing the amount of sorbent to the flowing air.

11. A method for reducing the amount of mercury adsorbed to activated carbon, the method comprising:

providing an amount of activated carbon, at least a portion of the activated carbon having adsorbed mercury compounds; and

exposing the activated carbon to heated flowing air until the activated carbon reaches a temperature of at least 700°F (372°C).

12. The method of claim 11, wherein the step of exposing the activated carbon to heating flowing air comprises the steps of:

providing a metal media having openings; passing heated flowing air through the openings; and depositing the activated carbon on the metal media.

- 13. The method of claim 11 wherein: the openings are 10 microns or less.
- 14. The method of claim 11 wherein:

the flowing air is passed through the openings at greater than 0 to about 10 cubic feet (0.28 cubic meters) per minute.

15. The method of claim 11 wherein:

the amount of activated carbon is maintained in the heated flowing air until the activated carbon reaches a temperature in the range of 700°F (372°C) to 1000°F (538°C).

16. The method of claim 11, further comprising:

reusing the activated carbon in a mercury reduction process after mercury compounds are liberated from at least some of the activated carbon.

17. The method of claim 11 further comprising:

preheating the amount of activated carbon to a temperature of at least 300°F (148°C) before exposing the amount of activated carbon to the flowing air.

18. A method for reducing the amount of mercury in an amount of particulate matter including fly ash and activated carbon, the method comprising:

providing an amount of particulate matter including fly ash and activated carbon, at least a portion of the fly ash or activated carbon having adsorbed mercury compounds; and

exposing the amount of particulate matter to heated flowing air until mercury compounds are liberated from at least some of the particulate matter.

## 19. The method of claim 18 wherein:

the particulate matter is exposed to heated flowing air until the particulate matter reaches a temperature of at least 700°F (372°C).

## 20. The method of claim 18 wherein:

the particulate matter is exposed to heated flowing air until the particulate matter reaches a temperature in the range of 700°F (372°C) to 1000°F (538°C).